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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,945	12/09/2003	Sung Hoon Kim	2097-3-16	6753
7590 01/27/2005			EXAMINER	
JONATHAN Y. KANG, ESQ.			BENSON, WALTER	
LEE, HONG, DEGERMAN, KANG & SCHMADEKA 14th Floor			ART UNIT	PAPER NUMBER
801 S. Figueroa Street Los Angeles, CA 90017-5554			2858	
			DATE MAILED: 01/27/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/731,945	KIM, SUNG HOON				
Office Action Summary	Examiner	Art Unit				
	Walter Benson	2858				
The MAILING DATE of this communication app						
Period for Reply		•				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timey within the statutory minimum of thirty (30) days will appty and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
<i>,</i>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
•	ın.					
	Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-7</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
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9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>09 December 2003</u> is/are: a) □ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		,				
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 	s have been received.					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau	· ·	a m tine rialienal etage				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		•				
1) X Notice of References Cited (PTO-892) 2) X Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

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DETAILED ACTION

1. Claims 1-7 are presented for examination.

Specification

- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns,"

"The disclosure defined by this invention," "The disclosure describes," etc.

4. The disclosure is objected to because of the following informalities:

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Page 8, paragraph [22], lines 4, 5, 9, and 11, ignition coil 10 and hall sensor 10 each have the same item number.

Appropriate correction is required.

Drawings

5. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because numbers and reference characters not plain and legible. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Allowable Subject Matter

6. Claims 1-7 are allowed.

The prior art of record fails to teach in combination as claimed a system for inspecting the operation of an ignition system for vehicles having first and second analogue signal receiving sections each for receiving an input signal in the form of a high voltage waveform, which generated from an ignition plug through a connection channel of an external signal. A microcomputer having a program converting the analogue signal generated from the non-inverting amplifier into first digital signal, converting the second analogue signal into second

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digital signal based upon an output signal from comparator, applying the reference voltage to the comparator, and controlling the system according to calculation and measurement modes of the converted digital signals.

Prior Art Made of Record

- The prior art made of record and not relied upon is considered pertinent to applicant's 7. disclosure
- A. Kravis (US Patent No. 6,426,626 B1) discloses a method and apparatus for testing spark plugs and ignition coils;
- B. Ito (US Patent No. 6,606,551 B2) discloses a method and apparatus for determining malfunction of an engine system;
- C. Johnson (US Patent No. 6,204,770 B1) discloses a sensor tester for testing multiple vehicle sensors.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter Benson whose telephone number is (571) 272-2227. The examiner can normally be reached on Mon to Fri 6:30 AM to 4:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Walter Benson (AB)
Patent Examiner

January 22, 2005

JAY PATIDAR